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## NOTICE OF ALLOWANCE AND FEE(S) DUE

27128

7590

12/13/2010

HUSCH BLACKWELL LLP 190 Carondelet Plaza Suite 600 ST. LOUIS, MO 63105 EXAMINER

WEBB, VERNON P

ART UNIT PAPER NUMBER

2811 DATE MAILED: 12/13/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/599,232	10/23/2006	Tae-Kyung Yoo	718936.17	6109

TITLE OF INVENTION: III-NITRIDE COMPOUND SEMICONDUCTOR LIGHT EMITTING DEVICE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	03/14/2011

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

## PART B - FEE(S) TRANSMITTAL

## Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

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appropriate. All further	correspondence including ed below or directed oth	ng the Patent, advance of	rders and notification of n	naintenance fees w	ill be	mailed to the current	nould be completed where correspondence address as arate "FEE ADDRESS" for
		ock 1 for any change of address)	Fee(	s) Transmittal This	s certif	ficate cannot be used f	or domestic mailings of the or any other accompanying nt or formal drawing, must
27128	7590 12/13	/2010	nave			ning or transmission. e of Mailing or Trans	
HUSCH BLAC 190 Carondelet I Suite 600	Plaza		I her State addr trans	eby certify that thi es Postal Service w essed to the Mail mitted to the USPI	s Fee( ith suf Stop TO (57	s) Transmittal is being ficient postage for firs ISSUE FEE address 1) 273-2885, on the d	g deposited with the United st class mail in an envelope above, or being facsimile ate indicated below.
ST. LOUIS, MC	0 63105						(Depositor's name)
							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/599,232	10/23/2006		Tae-Kyung Yoo			718936.17	6109
TITLE OF INVENTION	I: III-NITRIDE COMPC	OUND SEMICONDUCTO	OR LIGHT EMITTING DE	VICE			
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nonprovisional	NO	\$1510	\$300	\$0		\$1810	03/14/2011
EXAM	IINER	ART UNIT	CLASS-SUBCLASS				
WEBB, V	ERNON P	<u>1</u> 2811	257-103000				
1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).  Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.  "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer			(1) the names of up to or agents OR, alternativ (2) the name of a single registered attorney or a	ne of a single firm (having as a member a attorney or agent) and the names of up to d patent attorneys or agents. If no name is			
PLEASE NOTE: Un	less an assignee is ident h in 37 CFR 3.11. Comp	ified below, no assignee	HE PATENT (print or typ data will appear on the pa T a substitute for filing an a (B) RESIDENCE: (CITY	ntent. If an assigned			ocument has been filed for
Please check the appropr	iate assignee category or	categories (will not be pr	rinted on the patent):	Individual 🖵 Co	rporati	on or other private gro	oup entity Government
`	are submitted:  No small entity discount p # of Copies	permitted)	b. Payment of Fee(s): (Plea A check is enclosed. Payment by credit care The Director is hereby overpayment, to Depos	d. Form PTO-2038	is atta	nched. required fee(s), any de	·
5. Change in Entity Sta	tus (from status indicated as SMALL ENTITY state		b. Applicant is no long	ger claiming SMAL	L EN	ΓΙΤΥ status. See 37 Cl	FR 1.27(g)(2).
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will not be accepte tes Patent and Trademark	d from anyone other than th				ne assignee or other party in
Authorized Signature				Date			
Typed or printed name				Registration N	o		
This collection of inform an application. Confiden submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 223	nation is required by 37 C tiality is governed by 35 d application form to the ions for reducing this bu 7/irginia 22313-1450. DC 113-1450.	CFR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the ONOT SEND FEES OR	on is required to obtain or r 1.14. This collection is est depending upon the indiv e Chief Information Office COMPLETED FORMS TO	etain a benefit by the imated to take 12 n idual case. Any co r, U.S. Patent and 7 THIS ADDRESS	ne pub ninutes mment Fraden SEN	lic which is to file (and s to complete, includin is on the amount of tin nark Office, U.S. Depo D TO: Commissioner	by the USPTO to process) ag gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450,

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10/599,232	10/23/2006	Tae-Kyung Yoo	718936.17	6109		
27128 7.	27128 7590 12/13/2010			EXAMINER		
HUSCH BLACK	KWELL LLP	WEBB, VERNON P				
190 Carondelet Pla	aza		ART UNIT	PAPER NUMBER		
Suite 600 ST. LOUIS, MO 6	53105		2811 DATE MAILED: 12/13/201	0		

## Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 914 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 914 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)		
Notice of Allowability	10/599,232 <b>Examiner</b>	YOO ET AL. Art Unit		
•				
	VERNON P. WEBB	2811		
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R	(OR REMAINS) CLOSED in or other appropriate commits IGHTS. This application is	n this application. If not include unication will be mailed in due of	d course. <b>THIS</b>	
1. $\boxtimes$ This communication is responsive to <u>the amendment filed</u>	<u>on 09/10/2010</u> .			
2. The allowed claim(s) is/are <u>1 and 3-20</u> .				
3. Acknowledgment is made of a claim for foreign priority unal All b) ☐ Some* c) ☐ None of the:  1. Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have	e been received. e been received in Applicati	on No		
3. Copies of the certified copies of the priority do	cuments have been receive	ed in this national stage applicati	on from the	
International Bureau (PCT Rule 17.2(a)).				
* Certified copies not received:				
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the req	uirements	
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			OTICE OF	
5. CORRECTED DRAWINGS ( as "replacement sheets") mus	st be submitted.			
(a) ☐ including changes required by the Notice of Draftspers	son's Patent Drawing Revie	w ( PTO-948) attached		
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date	,			
<ul><li>(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date</li></ul>	s Amendment / Comment o	or in the Office action of		
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			back) of	
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT			ote the	
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of I	nformal Patent Application		
2.  Notice of Draftperson's Patent Drawing Review (PTO-948)		Summary (PTO-413),		
3. Information Disclosure Statements (PTO/SB/08),	Paper No 7.	./Mail Date s Amendment/Comment		
Paper No./Mail Date  4. Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's	s Statement of Reasons for Allov	vance	
of Biological Material 9. ☐ Other				
/Hung Vu/				
Primary Examiner, Art Unit 2811				

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## **DETAILED ACTION**

#### Reasons for Allowance

- 1. Claims 1, 3-20 are allowed over the prior art.
- 2. The following is an examiner's statement of reasons for allowance: Allowable subject matter has been indicated because the closest prior art reference of record, Kamimura et al. (J.P. Pub. Application 10-084159), either alone or in combination, fails teach or fairly suggest the feature "a second layer composed of a III-nitride semiconductor layer, the second layer *including a plurality of island-like protrusions*, each of the protrusions being formed on a top surface of the first layer."
- 3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to VERNON P. WEBB whose telephone number is (571)270-3332. The examiner can normally be reached on Monday through Friday, 7:30 am to 5 pm, Eastern.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynne A. Gurley can be reached on 571-272-1670. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Art Unit: 2811

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/V. Parris Webb/ Examiner, Art Unit 2811

> /Hung Vu/ Primary Examiner, Art Unit 2811